



## Calhoun: The NPS Institutional Archive

---

Institutional Publications

Today@NPS

---

2012-10

# Today@NPS / October 2012

Monterey, California : Naval Postgraduate School

---

<http://hdl.handle.net/10945/34042>



Calhoun is a project of the Dudley Knox Library at NPS, furthering the precepts and goals of open government and government transparency. All information contained herein has been approved for release by the NPS Public Affairs Officer.

**Dudley Knox Library / Naval Postgraduate School**  
**411 Dyer Road / 1 University Circle**  
**Monterey, California USA 93943**

<http://www.nps.edu/library>


[About NPS](#)
[Academics](#)
[Administration](#)
[Library](#)
[Research](#)
[Technology](#)
[Services](#)

## Today@NPS

[NPS](#) > [About NPS](#) > [Publications](#)

**Today@NPS** showcases some of the speakers, conferences, experiments, lectures, and other events that take place at the Naval Postgraduate School on a daily basis. If you would like more information about any of the highlighted activities please contact the public affairs office at [pao@nps.edu](mailto:pao@nps.edu). To view more stories visit the [Today at NPS archive](#). NPS' photo galleries and graduation pictures can be found on the [Photo Gallery - Collections page](#).



U.S. Navy photo by MC1 Leonardo Carrillo

### Expanding Your Horizons Conference Brings STEM Fields to Area Youth

MC1 Leonardo Carrillo

NPS President Dan Oliver gives opening remarks during the Expanding Your Horizons conference (EYH), held Oct. 27 on campus. The event was a daylong, hands-on conference for girls grades 5-10 that is meant to promote interest in science, technology, engineering and math (STEM) in these young students.

During the conference, the young ladies were exposed to different activities promoting STEM disciplines, including robotics, geology, computer science and many others. Event organizers were very pleased with the participation of local students from around Monterey County.

"This is what makes this conference so great," explained EYH organizer Dr. Dave Nickles, NPS Director of Research Communications and Outreach. "The kids get hands-on experience in science activities, and they leave here believing that they can work in these fields."

Nickles noted that this aspect of EYH was one of the most important – promoting interest in the STEM fields is critical as student intrigue in them has been disappearing from schools at alarming rates. With so many aspects of modern society tied to advancements in STEM disciplines, Nickles added, ensuring a new crop of youth is pursuing careers in them is paramount.

### GSBPP Faculty Releases Definitive Resource on Contingency Contracting

Kenneth A. Stewart

Naval Postgraduate School Senior Lecturer E. Cory Yoder of the Graduate School of Business and Public Policy recently lead the completion of the fourth edition of the "Defense Contingency Contracting Handbook." The handbook is the authoritative guide to contingency contracting, which encompasses all contracting done within a contingency environment, including military operations, stability operations, natural disasters and more. The resource will be used by contracting officials from across the uniformed services around the world.

"The hallmark of the fourth edition is that it incorporates all of the latest legislation and regulations," said Yoder. "Earlier editions were good, but this edition contains a lot of content that will be useful to our forces that are going down range."

Yoder insists that the current handbook is a collaborative work, and credits several of his colleagues at the Naval War College, Defense Acquisition University and contributors from the Department of Defense for the current edition.

In addition to information on basic contingency contracting, the updated handbook features information for senior officers who are transitioning from tactical contracting to operational and strategic-level contracting, and contains links to training, PowerPoint presentations and exams.



Photo courtesy of Terrell Lloyd, official team photographer of the San Francisco 49ers

### NPS Color Guard Performs at NFL Game

MC1 Rob Rubio

The NPS Color Guard, from left to right, ET1 Darry Pilkington, OS2 Josh Sarmiento, OS2 Martin Chance and IT3 Matt McCarthy, presents the Colors with pride and professionalism representing NPS and the U.S. Navy during the opening ceremonies of the San Francisco 49ers football game against the Seattle Seahawks, Oct. 18 at Candlestick Park. The team has performed in approximately 80 events in the last two years, ranging from NPS events, Navy funerals and memorial services, retirements and local community events.

"The group that I have now has been significantly supportive. We have a significant amount of individuals who have been properly trained, and thanks to that training and regularly scheduled refresher trainings, we are good to go when an event arises," remarked Petty Officer in Charge, ET1 Darry Pilkington.

"A lot of the events that we support require a bit of give and take, with many occurring after hours and weekends. The Color Guard has approximately 10 active members, and has lately been doing a significant quantity of events, and I wanted something to be given back to the group to enable them to get to enjoy themselves," he added.



U.S. Navy photo by MC1 Leonardo Carrillo

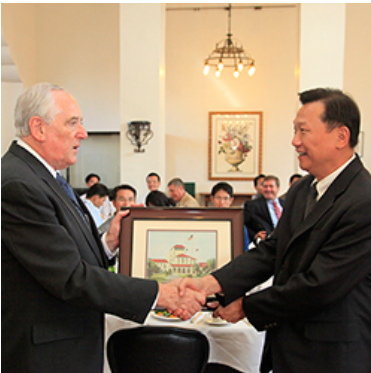
### 7th Fleet Commander Talks Sea Strategy With NPS Faculty

MC1 Leonardo Carrillo

Vice Adm. Scott H. Swift, Commander, U.S. 7th Fleet, discusses strategy with NPS faculty during a visit to the university, Oct. 18. Swift met with several campus leaders and faculty, and attended briefings from multiple departments, discussing relevant national defense issues.

During his visit, Swift met with several NPS representatives, and was briefed across a spectrum of ongoing research and education efforts. He led a discussion of current topics during a lunch with several NPS students, and discussed 7th Fleet strategic needs and advanced educational plans with iconic faculty member, Hughes.

As Commander of U.S. 7th Fleet, Swift's strategic outlook is focused on his more than 48 million square-mile Area of Responsibility (AOR). U.S. 7th Fleet encompasses territory from the Kuril Islands in the north to the Antarctic in the south, from the International Date Line to the 68th meridian west. This AOR extends to the India-Pakistan border, and includes strategically important countries such as the People's Republic of China, Russia, India and North Korea.



U.S. Navy photo by Javier Chagoya

### Senior Taiwanese Delegation Tours NPS

Javier Chagoya

Graduate School of Operational and Information Sciences Dean, Dr. Peter Purdue, left, presents a framed watercolor painting of Hermann Hall to Yuan-Hsiung Chen, Director of the Integrated Assessment Office for the Republic of China, Taiwan, during a luncheon in the Tower Room, Oct. 15. Chen and his team were briefed on NPS curricula in which Taiwanese students are currently enrolled.

Chen was accompanied by his IAO auditor Kuan-Chih Chen, along with Taiwan Army Lt. Col. Tung-Ching Teng, Military Liaison Officer for the Taipei Economic and Cultural Office in San Francisco. The major tasks of IAO include strategic environment assessment, military capability assessment, modeling and simulation policy formulation and execution, cost effectiveness analysis on major military investment, and defense resources distribution and integration assessment.

There are currently 15 students from Taiwan enrolled at NPS in various programs, with 272 Taiwanese graduates to date. The first Taiwanese student graduated in June 1954 with a degree in Aeronautical Engineering.



U.S. Navy photo by Javier Chagoya

### NATO S&T Panel Renews Efforts to Optimize Ops Analysis

Javier Chagoya

NPS Executive Vice President and Provost Dr. Leonard Ferrari, left, and NATO Science and Technology Organization Panel Chair Jocelyn Tremblay, right, greet during the semi-annual conference on Science and Technology, held in the La Novia Room on campus, Oct. 15. Ferrari kicked off the three-day meeting with welcome remarks and an invitation to tour the school's various labs and facilities.

"One of the current initiatives we are making headway in here at NPS is building a core competency in cyber security and reliable, secure networks," said Ferrari, introducing attendees to the institution. "And as we all have experienced the volatile increase in foreign oil prices, our own research efforts in renewable energy has intensified," he added.

He reminded the group that the NPS student body is made up of a significant percentage of international delegations from 47 nations and that the lasting relationships among the alumni go far deeper to promote international cooperation and understanding.

The Science and Technology Organization's theme in this round is "Operational Analysis Support to NATO Operations." Their objective is to help maximize the effectiveness of operations analysis support in both NATO and nationally-deployed headquarters [NATO] with the focus on operational aspects to help to ensure mission success.



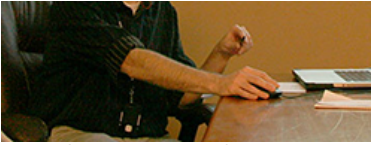
### Workshop Helps Video Content Managers Understand Current Capabilities

MC1 Rob Rubio

Todd Wyatt, Developer and System Administrator with ITACS Enterprise Information Systems, presents a demonstration of advancements in web-based video streaming capabilities for campus users during a workshop, Oct. 12. The meeting brought together several NPS staff that work in video content development to better understand the enhanced capabilities that are available to them.

"The goal of this meeting is to start building up the number of people that know how to use this ... to get everybody in the room familiar with the tools that we have and to start using them," Wyatt remarked.





U.S. Navy photo by MC1 Rob Rubio

Wyatt addressed the existing NPS video portal, streaming video trends, content management, video storage and system management questions. During the demo, he introduced participants to a new universal video embedder (UVE) system that allows users to easily generate the code necessary to embed any video player into a Web page. This new UVE system supports the latest in video streaming technologies, allowing NPS videos to be viewed by a wider audience, including those using mobile devices.



U.S. Navy photo by Kenneth A. Stewart

### Regional Education Leaders Discuss Collaboration, Shared Vision

Kenneth A. Stewart

The presidents of several area colleges and universities joined 17th District Representative, Congressmen Sam Farr, and Naval Postgraduate School (NPS) President Dan Oliver on the NPS campus for candid discussion on a wide range of topics, including the economics of higher education and opportunities for collaborative educational and research programs.

Congressman Farr recognized both the economic and intellectual contributions of the local institutions of higher learning.

"We have to measure the value of the intellectual capacity of the institute," said Farr. "NPS is receiving growing recognition from its graduates that are doing important things all around the world."

Economic impact was an important topic of discussion, but so too was collaboration. NPS is working with several local schools to collaborate on important research and to provide internship opportunities.



U.S. Navy photo by Javier Chagoya

### Key Player in Maersk Alabama Hostage Rescue Addresses Students During SGL

Kenneth A. Stewart

Renowned Naval Postgraduate School (NPS) alumnus and former USS Bainbridge (CGN-25) commander, Navy Capt. Frank Castellano, addresses NPS students and faculty during a Secretary of the Navy Guest Lecture, Oct. 16 in King Auditorium. The Bainbridge caught the public's attention after it led the dramatic rescue operation that freed Maersk Alabama Capt. Richard Phillips from Somali pirates in 2009.

"This is a 'sea story,' my sea story," said Castellano in beginning his recount of the dramatic events. "There are many perspectives about what happened that day, this is mine."

"My story is about teamwork ... It's a human story about ordinary people doing extraordinary things," Castellano continued.

Castellano credits his NPS education with his ability to make the tough decisions and to endure the sleepless, high-stress environment that culminated in Phillips' rescue.

"Intuitive decision making under stress was part of my thesis research at NPS ... The innovative thought and critical thinking skills that I gained at NPS helped me to approach the problem in a non-traditional manner," said Castellano.

### Meritorious Civilian Service Award Presented to Information Sciences Employee

MC1 Leonardo Carrillo

William H. Roeting, second from right, a researcher with the NPS Department of Information Sciences (IS), is presented the Meritorious Civilian Service Award from IS Chair Dr. Dan Boger during a brief ceremony, Oct. 11. Roeting was recognized for his performance, achievements and contributions to information sciences from October 2011 through September 2012.

He was hand-picked by the Air Force Headquarters A2 Directorate to lead the Beyond Line of Sight Command and Control (BLOS C2) program – A \$160 million effort designed to allow forward deployed military personnel to better communicate with decision makers at theater command centers.

Roeting's contributions ensured that the effort was put on course towards a quick but successful delivery to U.S. forces forward deployed to the Central Command area of operations. His efforts and contributions, noted within the award citation, were the primary reason the program was a successful endeavor and continues to be so today.

Roeting accepted the award and thanked everyone in attendance for their support. "I'm proud of what we do as a group, we really make a huge difference out there," he said.



U.S. Navy photo by MC1 Leonardo Carrillo

U.S. Navy photo by MC1 Leonardo Carrillo



U.S. Navy photo by MC1 Leonardo Carrillo

### Monterey Community Celebrates Navy's 237th Birthday MC1 Leonardo Carrillo

Members of the Monterey military community prepare to give a traditional toast during the 237th U.S. Navy Birthday Ball celebration in the Barbara McNitt Ballroom at the Naval Postgraduate School, Oct. 13.

Military friends and family from around the Monterey Peninsula, and different parts of the world, attended the celebration, which also coincided with the 200th anniversary of the War of 1812. Singing "Anchors Aweigh!" and toasting to Navy leaders and fallen comrades, attendees participated in Navy traditions and enjoyed a night of music and good fun celebrating the service's birthday.

"The War of 1812 remains a very relevant event to us today," said retired Navy Capt. Steven E. Maffeo, Associate Director of the U.S. Air Force Academy's McDermott Library and guest speaker for the event. "The Navy had a string of victories over the powerful British Navy of the time, and that made it stand out as a force to be reckoned with among the navies of the world. And that tradition continues to this day."

Maffeo is a widely-recognized historian and has published several books dealing with military history, and in particular, naval history. He recently published the book, "The Perfect Wreck: 'Old Ironsides' and HMS Java – A Story of 1812." He served in the Navy for 30 years as both enlisted and officer before retiring in 2008.



Photo courtesy Lyla Englehorn

### NPS Students, Faculty and Alumni Showcase University During Fleet Week MC1 Grant P. Ammon

Navy Lt. Michael McCormick, an NPS mechanical engineering student, meets with members of the Golden Gate Junior Marines while working at an NPS outreach booth during San Francisco Fleet Week (SFFW) 2012. McCormick, along with students and faculty representing NPS' Consortium for Robotics and Unmanned Systems Education and Research (CRUSER), operated an NPS outreach booth to showcase ongoing NPS projects to members of the San Francisco community.

This year's festivities included the third annual Senior Leadership Seminar (SLS), which brought together leaders from the military along with local, regional, state and federal agencies and the private sector, to discuss their capabilities to respond to a natural disaster in the Bay Area. As part of the SLS' Cyber Security discussion panel, Ms. Cynthia Irvine, Chair of NPS' Cyber Academic Group, took on the role of moderator, leading a group of experts in the field on a discussion focused on the role data networks and applications play in supporting disaster response efforts.



U.S. Navy photo by MC1 Leonardo Carrillo

### NPS, NSAM Explore Alternative Energy Sources MC1 Leonardo Carrillo

Capt. Gerral K. David, center, Commanding Officer of Naval Support Activity Monterey (NSAM), speaks with representatives from California-based Bloom Energy during an exploratory meeting, Oct. 4. NSAM officials are looking at possible cost-efficient alternatives for supplying energy throughout its installations including the NPS campus.

The possibility of finding a cost-efficient alternative source of energy for the installations he oversees is a prospect that should be explored, David says, but also stresses the importance of thorough analysis and verification before taking the next step.

NSAM is responsible for over 15 tenant commands in the Monterey Bay area including the Naval Postgraduate School, Fleet Numerical Meteorology and Oceanography Center, and several others. As a support activity, NSAM provides a multitude of functions to its tenant commands including base operations support, quality of life services, and community involvement through civic partnership. Founded in 2001, the Sunnyvale, Calif.-based Bloom Energy provides onsite power generation systems utilizing unique, fuel cell technologies.



U.S. Navy photo by MC1 Grant Ammon

### Army's Cyber Commander Explores NPS Education, Research Programs MC1 Grant Ammon

Lt. Gen. Rhett A. Hernandez, left, Commanding General of U.S. Cyber Command/U.S. 2nd Army, tours campus with NPS student, U.S. Army Maj. Joshua Bundt, during a two-day exploratory review of the university's cyber education and research programs. While on campus, Hernandez and members of his official party toured NPS facilities, met with key faculty members and listened to student thesis presentations. The visit provided Hernandez and his staff an opportunity to build partnerships between his command and NPS.

"This visit provided an opportunity for our command to look hard at the educational capability of NPS, and how we can leverage the power of what the university is already doing from a cyber perspective," noted Hernandez. "I was very impressed with the passion and energy from the faculty and students here."

Hernandez assumed command of Army Cyber Command/2nd Army in October of 2010. Army Cyber Command/2nd Army plans, coordinates, integrates, synchronizes, directs, and conducts network operations and defense of all Army networks; when directed, conducts cyberspace operations in support of full spectrum operations to ensure U.S./Allied freedom of action in cyberspace, and to deny the same to our adversaries. The total command strength will exceed 21,000 Soldiers and civilians and will be funded from within existing fiscal resources.

### SIGS Associate Dean Promotes to Captain

Javier Chagoya

U.S. Army Col. Gary Espinas, left, NPS Foreign Area Officer Chair, administers the oath of office to Associate Dean of the School of International Graduate Studies (SIGS) Capt. Bernie Wang during his promotion ceremony held in the NPS Flag Garden, Oct. 1.



U.S. Navy photo by Javier Chagoya

"An officer's promotion is not only a reflection of that officer's accomplishments and achievements, but more importantly, promotion recognizes the officer's demonstrated potential for increased responsibility and authority. In this context, I am sure that Capt. Wang will continue to make significant contributions to the Foreign Area Officer (FAO) community, the U.S. Navy, and the Department of Defense," said Espinas as he addressed Wang's family, friends and colleagues.

Wang was designated a Foreign Area Officer in 2007, his assignments as a FAO included language training at Defense Language Institute Foreign Language Center where he graduated with honors, in addition to attendance at the Naval War College in Newport, R.I. From May 2009 to May 2011, he was selected and served as the Navy Foreign Area Officer Community Manager at the Bureau of Naval Personnel, followed by his selection to join NPS in September of 2011.



U.S. Navy photo by MC1 Leonardo Carrillo

### AFIT Presents Gift to NPS, Space Systems

MC1 Leonardo Carrillo

Naval Postgraduate School President Dan Oliver speaks with members of the Space Systems Academic Group (SSAG) following the presentation of a gift from the Air Force Institute of Technology (AFIT) during a group meeting, Oct. 2.

A current focal area of research over the last several years within SSAG has been in the small platform satellite system known as CubeSat, and its related ground command and control stations, launch platforms, and more. These small satellites, named for their cube-like shape, are gaining acceptance around the world, and NPS and AFIT are expecting to continue to collaborate and share resources, facilities and ideas for their future development.

Both NPS and AFIT have stressed the importance of looking at developing technologies of use to the DOD, and the CubeSat projects provide students with unique opportunities for the development of important technological and scientific advances as well as the opportunity to conduct research and hands-on education.



U.S. Navy photo by Javier Chagoya

### Guest Lecturer Highlights Laser Beam Optimization

Javier Chagoya

University of California Associate Professor Arnold D. Kim gave an informative seminar on cutting-edge mathematical and computational methods available to detect the location, power and orientation of laser beams. He also presented his own theories for correcting diffusion approximation at the laser beam boundary and interface.

Director of the Center for Decision, Risk, Controls and Signals Intelligence, Dr. Sivaguru Sriharan, hosted Kim's presentation. "Rapid detection of the attacks by high-power, directed-energy weapons, such as lasers and microwave weapons, is a fundamental and timely Navy requirement," said Sriharan, adding that there are a number of funded research programs from the Office of Naval Research Measurement and Signature Intelligence as well as the Naval Reconnaissance Office focused on directed energy.

Kim conducts interdisciplinary research at the interface between mathematics, science and engineering. In particular, he studies wave propagation in random media with applications to biomedical optics and wireless communications. His research includes the study of differential and integral equations, asymptotic analysis, scientific computing and inverse problems.



### NPS Professor Leads Efforts to Document Systems Engineering Body of Knowledge

MC1 Leonardo Carrillo

Professor David H. Olwell of the NPS Department of Systems Engineering speaks during an author workshop for the Guide to the Systems Engineering Body of Knowledge (SEBoK) earlier this year. Olwell is co-principal investigator and co-editor in chief of SEBoK, a





Photo courtesy of Dr. Tim Ferris, University of South Australia

compendium for systems engineering information and knowledge launched Sept. 14.

As SEBoK co-principal investigator and co-editor in chief, Olwell led the charge at NPS, along with Professor Chuck Calvano and Associate Professor Ray Madachy as authors, Ms. Stephanie Enck as an editor and several NPS faculty from the SE and operations research departments as reviewers.

The major peer-reviewed, three-year effort is an important addition to the systems engineering literature, said Olwell. "This is a very significant project," he noted. "It strengthens our relationship with our partners and it emphasizes the Naval Postgraduate School's international role as a leader in systems engineering."



U.S. Navy photo by MC1 Grant Ammon

### NPS Students 'Pinned' by Flag Alumni, Community Leaders

MC1 Grant Ammon

Rear Adm. Brian Brown, Commander, Naval Meteorology and Oceanography Command, pins the Information Dominance Warfare Officer (IDWO) device on NPS student Lt. Cmdr. Casey Gon, Sept. 25. Brown, along with Rear Adm. Jonathan White, both NPS alumni, awarded IDWO warfare pins to Gon and fellow student Lt. Joseph Ceschini while visiting campus for a curriculum review.

Formal designation as an IDWO signifies that eligible Navy officers have acquired specific knowledge, skills and experience, and have demonstrated proficiency at the professional level of competence required for satisfactory performance of assigned duties. Pinning is the culmination of a months-long process that required extensive classroom and practical application demonstrations for the officers to achieve. The first phase of qualification, focusing on basic Information Dominance Corps principles, took part in NPS classrooms, while the more advanced phase required officers to travel to fleet concentration areas for practical application qualifications.

### Top Ranked Indian University Administrators Tour SRDC

Javier Chagoya



Photo courtesy the NPS Spacecraft Research and Design Center

Distinguished Professor Brij Agrawal, left, demonstrates the diversity of research being conducted at the Naval Postgraduate School to Vice Chancellor of Banares Hindu University Dr. R.P. Singh, center, and Director of the Indian Institute of Technology (IIT) Dr. Khananjai Pandey. Agrawal, himself an alum of IIT, is investigating possible areas for collaboration with his alma mater.

The delegation traveled to campus to attend a seminar on piezo-ceramic actuators. In addition to the potential collaboration discussions, Agrawal also showed off the latest additions and enhancements to the Segmented Mirror Telescope, the newly-installed marble test bed for robotics research, the adaptive optics lab, and other labs within the Spacecraft Research and Design Center.

[VIEW THE ARCHIVE ►](#)

[Contacts](#) | [Employment](#) | [Copyright/Accessibility](#) | [Privacy Policy](#) | [FOIA](#) | [Intranet Access](#)

This is an official U.S. Navy website.  
All information contained herein has been approved for release by the NPS Public Affairs Officer.  
Page Last Updated: Jun 6, 2013 2:09:29 PM | [Contact the Webmaster](#)